

ABSTRACT OF THE DISCLOSURE

In a processor, an operating unit executes an instruction within an instruction set, and a second operating unit executes other custom instructions. The second operating unit consists of a plurality of AND
5 circuits, OR circuits, adders, selectors, and multiplexers. The information about which circuit should be combined with which circuit when the instruction is input is held in advance as structure information in a configuration memory. One piece of structure information corresponds to one custom instruction. The second operating unit in
10 an optimum circuit structure determined based on this structure information executes the instruction. With this arrangement, it is possible to increase the processing speed than when the operating unit executes the processing.